



United Kingdom of Great Britain and Northern Ireland

EDICT OF GOVERNMENT

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BS NA EN 1993-1-12 (2007) (English): UK National Annex to Eurocode 3. Design of steel structures. Additional rules for the extension of EN 1993 up to steel grades S 700

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MAGNA CARTA (1297)

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NATIONAL ANNEX

UK National Annex to Eurocode 3: Design of steel structures –

**Part 1-12: Additional rules for the
extension of EN 1993 up to steel
grades S 700**

ICS 91.010.30; 91.080.10

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Summary of pages

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National Annex (informative) to BS EN 1993-1-12:2007, Eurocode 3: Design of steel structures – Part 1-12: Additional rules for the extension of EN 1993 up to steel grades S 700

Introduction

This National Annex has been prepared by BSI Subcommittee B/525/10 *Bridges* in consultation with B/525/31 *Structural use of steel*.

NA.1 Scope

This National Annex gives:

- a) the UK decisions for the Nationally Determined Parameters described in the following subclauses of BS EN 1993-1-12:2007:
 - 2.1 (3.1(2))
 - 2.1 (3.2.2(1))
 - 2.1 (5.4.3(1) NOTE)
 - 2.1 (6.2.3(2) NOTE)
 - 2.8 (4.2(2) NOTE)
 - 3 ((1) NOTE)
- b) References to non-contradictory complementary information (see **NA.3**).

NA.2 Nationally Determined Parameters

NA.2.1 Additional rules to BS EN 1993-1-1

NA.2.1.1 BS EN 1993-1-12:2007, 2.1 (3.1(2))

The grades in Tables 1 and 2 and the strength data they contain may be used provided that the rules in BS EN 1993-1-12 are followed. Further restrictions on the use of these grades for bridge works apply as given in **NA.2.1.2**.

NA.2.1.2 BS EN 1993-1-12:2007, 2.1 (3.2.2(1))

The recommended values for f_u/f_y , the elongation at failure and ultimate strain ϵ_u are as follows:

- $f_u/f_y \geq 1,10$ for bridges and other highway structures;
- $f_u/f_y \geq 1,10$ for buildings and other structures;
- elongation at failure not less than 10%;
- $\epsilon_u \geq 15f_y/E$.

NA.2.1.3 BS EN 1993-1-12:2007, 2.1 (5.4.3(1) NOTE)

No additional rules are provided.

NA.2.1.4 BS EN 1993-1-12:2007, 2.1 (6.2.3(2) NOTE)

The recommended value for γ_{M12} should be adopted.

NA.2.2 Additional rules to BS EN 1993-1-8

NA.2.2.1 BS EN 1993-1-12:2007, 2.8 (4.2(2) NOTE)

The required strength class of electrodes should be specified for the individual projects.

**NA.2.3 Additional rules to application parts
BS EN 1993-2 to BS EN 1993-6**

NA.2.3.1 BS EN 1993-1-12:2007, 3 ((1) NOTE)

No additional limits are provided.

**NA.3 References to non-contradictory
complementary information**

None.

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BSI Group Headquarters
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